

&lt;213&gt; Homo sapiens

&lt;400&gt; 622

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ccct						784

&lt;210&gt; 623

&lt;211&gt; 1164

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 623

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nanancatnn	nanntnncca	atctaccaa	atcanaacac	ncantgaaca	acacananna	300
tnnnatacnn	tctacnccaa	ancnnncat	nncacgcacg	ataanacanc	nnnnaaaaan	360
ancnaancan	atatcanann	caacctana	cnannaatca	nacnctnanc	tccncacag	420
cannngnacn	aanaacnanc	antgataaan	cncacctnnn	tannacacac	ctnannancc	480
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&lt;210&gt; 624

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 624

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&lt;210&gt; 625

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 625

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&lt;210&gt; 626

&lt;211&gt; 825

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 626

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tnaatacggn	aaaactctct	cnaanngann	aanntatnnn	agttaaaagn	naaatannnn	720
aanantncca	aatntanaag	ataangncat	aanntatna	gncnnaacgc	taantgnnga	780
tgannntntaa	tnngnatana	nnantngtta	nnacaaaatn	tacnn		825

&lt;210&gt; 627

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 627

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&lt;210&gt; 628

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 628

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&lt;210&gt; 629

&lt;211&gt; 827

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 629

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&lt;210&gt; 630

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 630

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&lt;210&gt; 631

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 631

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&lt;210&gt; 632

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

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&lt;210&gt; 633

&lt;211&gt; 806

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 633

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&lt;210&gt; 634

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

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&lt;210&gt; 635

&lt;211&gt; 784

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 635

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&lt;210&gt; 636

&lt;211&gt; 765

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 636

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&lt;211&gt; 743

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 640

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&lt;211&gt; 740

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 641

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&lt;213&gt; Homo sapiens

&lt;400&gt; 645

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&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 646

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&lt;211&gt; 789

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 650

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 651

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<400> 654

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&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 655

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 656

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&lt;211&gt; 734

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;211&gt; 759

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

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&lt;210&gt; 667

&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

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&lt;210&gt; 668

&lt;211&gt; 763

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 668

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&lt;211&gt; 754

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

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&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

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&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

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&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 672

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&lt;211&gt; 755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 673

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&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 674

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&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 675

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&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 676

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 678

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 683

&lt;211&gt; 755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 683

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&lt;210&gt; 684

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 684

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 <212> DNA  
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<210> 690

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 690

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&lt;210&gt; 691

&lt;211&gt; 755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 691

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&lt;210&gt; 692

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 692

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&lt;210&gt; 693

&lt;211&gt; 881

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 693

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&lt;210&gt; 694

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 694

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 722

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;210&gt; 755

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 755

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798

&lt;210&gt; 756

&lt;211&gt; 834

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 756

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&lt;210&gt; 757

&lt;211&gt; 1062

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 757

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&lt;210&gt; 758

&lt;211&gt; 845

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 758

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tgctn						845

&lt;210&gt; 759

&lt;211&gt; 947

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 759

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&lt;210&gt; 760

&lt;211&gt; 759

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 760

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ccttgaacta	gagaaacttg	ntntggaaca	tttcaaaaga	tgaatgacaa	tctggattcn	720
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&lt;210&gt; 761

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 761

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acagggaaat	ctgcctacca	anaagggtgt	tgtgtgtctt	tgtgcccaca	cgtgggtggct	720
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&lt;210&gt; 762

&lt;211&gt; 1032

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 762

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atacttatan	ca					1032

&lt;210&gt; 763

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 763

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&lt;210&gt; 764

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 764

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&lt;210&gt; 765

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 765

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&lt;210&gt; 766

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 766

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&lt;210&gt; 767

&lt;211&gt; 799

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 767

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 <213> Homo sapiens

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 <211> 1157  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 770

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&lt;210&gt; 771

&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 771

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&lt;210&gt; 772

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 772

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&lt;210&gt; 773

&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 773

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&lt;210&gt; 774

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 774

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793

&lt;210&gt; 775

&lt;211&gt; 1009

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 775

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&lt;210&gt; 776

&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 776

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&lt;210&gt; 777

&lt;211&gt; 1366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 777

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&lt;210&gt; 778

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 778

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&lt;210&gt; 779

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 779

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&lt;210&gt; 780

&lt;211&gt; 783

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 780

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&lt;210&gt; 781

&lt;211&gt; 796

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 781

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&lt;210&gt; 782

&lt;211&gt; 886

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 782

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&lt;210&gt; 783

&lt;211&gt; 805

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 783

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&lt;210&gt; 784

&lt;211&gt; 776

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

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&lt;210&gt; 785

&lt;211&gt; 778

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

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gaagcttagt catatttcaa aatgatcaaa tatcaagaaa aattctgagc tgcataactt	600
gtataaagta attttcagtg atttttttca tgggttatgat aaaagaactg gatttagcaga	660
aacttttacc ctgaatcaag atttaatttt tctttgagct catcttaagg atatcggaac	720
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&lt;210&gt; 786

&lt;211&gt; 805

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 786

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&lt;210&gt; 787

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 787

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&lt;210&gt; 788

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 788

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&lt;210&gt; 789

&lt;211&gt; 773

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 789

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&lt;210&gt; 790

&lt;211&gt; 953

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 790

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&lt;210&gt; 791

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 791

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&lt;210&gt; 792

&lt;211&gt; 788

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 792

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&lt;210&gt; 793

&lt;211&gt; 806

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 793

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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&lt;211&gt; 773

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 797

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&lt;210&gt; 798

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 798

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&lt;211&gt; 758

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 799

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&lt;210&gt; 800

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 800

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&lt;210&gt; 801

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 801

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&lt;211&gt; 1390

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 802

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&lt;211&gt; 947

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 803

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&lt;211&gt; 532

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 804

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&lt;211&gt; 552

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 805

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&lt;211&gt; 1646

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 806

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&lt;210&gt; 807

&lt;211&gt; 1029

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 807

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&lt;211&gt; 836

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 808

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&lt;211&gt; 1844

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 809

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&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 810

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 811

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 812

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&lt;211&gt; 562

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 813

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 814

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&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 815

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 817

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 819

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&lt;211&gt; 899

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 823

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&lt;210&gt; 824

&lt;211&gt; 1980

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 824

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&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

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&lt;211&gt; 658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

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&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 830

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&lt;210&gt; 831

&lt;211&gt; 876

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&lt;213&gt; Homo sapiens

&lt;400&gt; 831

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&lt;210&gt; 832

&lt;211&gt; 768

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 832

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&lt;210&gt; 833

&lt;211&gt; 1604

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 833

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&lt;211&gt; 617

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 834

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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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**(57) Abstract**

This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/27610

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 C12N15/12 C07K14/47 C07K16/18 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 6 C12N C07K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CARMECI, C. ET AL.: "Identification of a gene (GPR30) with homolgy to the G-protein-coupled receptor superfamily associated with estrogen receptor expression in breast cancer." GENOMICS, vol. 45, no. 3, 1 November 1997 (1997-11-01), pages 607-17, XP002099963 abstract page 608, left-hand column, paragraph 3 --- -/--	1-7

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Date of the actual completion of the international search

15 April 1999

Date of mailing of the international search report

11. 11. 99

Name and mailing address of the ISA

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Smalt, R

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/27610

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YEATMAN, T.J. ET AL.: "Identification of genetic alterations associated with the process of human experimental colon cancer liver metastasis in the nude mouse." CLINICAL AND EXPERIMENTAL METASTASIS, vol. 14, no. 3, May 1996 (1996-05), pages 246-252, XP002099961 abstract	1-7
X	--- NUCLEIC ACID RESEARCH, vol. 23, no. 19, 1995, pages 4007-8, XP002099962 cited in the application the whole document	1-7
A	--- RADINSKY, R. ET AL.: "Level and function of epidermal growth factor receptor predict the metastatic potential of human colon carcinoma cells." CLINICAL CANCER RESEARCH, vol. 1, January 1995 (1995-01), pages 19-31, XP002099964 the whole document	
A	--- BALDI, A. ET AL.: "Differential expression of the retinoblastoma gene family members pRb/p105, p107, and pRb2/p130 in lung cancer." CLINICAL CANCER RESEARCH, vol. 2, July 1996 (1996-07), pages 1239-45, XP002099965 the whole document -----	

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International application No.

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
  
see FURTHER INFORMATION SHEET
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

SEE ADDITIONAL SHEET

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: Invention 1: claims 1-7

A library of polynucleotides comprising the sequence information of at least one of the sequences 1-844.

2. Claims: Invention 2: claims 8,13-19,21 all partially

The isolated nucleic acid with seq.ID 1, sequences with at least 90% sequence identity therewith and degenerate variants thereof, host comprising said nucleic acid, peptide encoded by said nucleic acid, antibody against said protein, vector comprising said nucleic acid, and a method for detecting the differential expression of said nucleic acid.

3. Claims: Inventions 3-845: claims 8-22, all partially,  
as far as applicable

As invention 2, but limited respectively to the seq.ID's 2-844

For the sake of conciseness, the second subject matter is explicitly defined, the subject matters of inventions 3-845 are defined by analogy thereto.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

In view of the large number of libraries, which are defined by the general definition in the independent claim 1, the search had to be restricted for economic reasons. The search was limited to the libraries for which data was given in the description, or libraries derived from cell lines mentioned in table 4 of the description, and to the general idea underlying the application (see Guidelines, Part B, Chapter III, paragraph 3.6).

